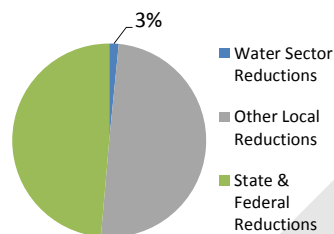


2014 CAP UPDATE - Water Sector Planning Matrix

Example Strategies	Jurisdiction
Reduce per capita water use by 20%	San Diego County
Reduce daily per capita water consumption by 4 gallons by 2020 (9 gallons by 2035)	San Diego
Increase the use of recycled water by 30% by 2020 from 2008 levels	Riverside
Reduce per capita water consumption by 33% from 2006 levels	Vancouver
Reduce water demand by 200,000 gallons per day by 2015	Santa Monica

Greenhouse Gas Emission Reductions



Assuming all sectors reduce equally, the Water Sector would need to reduce annual emissions by :

7,733 MT CO₂e by 2020

To meet this goal, the community would need to reduce water consumption by:

**1,915 acre feet/yr or
7 gal/day per capita reduction or
6% per capita reduction**

For reference:

- Low flow fixtures can save 2.2 gal/min
- Fixing a leak can save 20 to 50 gal/day

Current Actions			Notes
City Actions	1	Require free energy & water evaluations for businesses thru business licensing	CV CAP - Mitigation #3: ~600 evaluations annually
	2	Provide a Green Building incentive program, that rewards developers with expedited permitting	CV CAP - Mitigation #4: Zero participants to date
	3	Provide free energy & water evaluations for homes	CV CAP - Mitigation #5: ~150 evaluations annually
	4	Provide indoor and outdoor water upgrades financing for property-owners through a PACE program	CV CAP - Mitigation #5: Launching in April 2014
	5	Certify landscaping areas as "NatureScapes" based on their water efficiency and sustainability	CV CAP - Mitigation #7: ~80 properties annually
	6	Distribute outreach materials & host workshops to educate the community on water conservation & reuse	CV CAP - Mitigation #7: 3 workshops annually
	7	Update Landscape Water Conservation Ordinance to emphasize water use efficiency and reuse	CV CAP - Mitigation #7: Adopted in January 2010
	8	Pre-plumb new residential units (single-family & duplexes) for Laundry-to-Landscape systems	CV CAP - Adaptation #4: Adopted in May 2013
	9	Develop standards for indoor recycled water use (commercial only)	CV CAP - Adaptation #4: <i>Not completed yet</i>
	10	Encourage the beneficial reuse of storm water	CV CAP - Adaptation #5: <i>Not completed yet</i>
Example Actions		Jurisdiction	Notes
11	Incentivize Conservation		
a	Change water rate and billing structure	San Diego, Encinitas (through WD)	-----
b	Create incentives for water-saving appliances, irrigation, & plants	Port of San Diego, Encinitas, LA, LA County, Santa Monica, Sacramento, Emeryville, Riverside, & Vancouver	Encinitas - Water efficient appliances and irrigation LA - Incentivize projects that save water thru innovative technologies
c	Levy fines and sanctions against water abusers	Los Angeles	LA - Considering expanding the prohibited uses list (watering during rain, washing/rinsing vehicles with no self-closing nozzle)
d	Enforcing irrigation time restrictions	Riverside	-----
e	Use sewer ratepayer funds to incentivize indoor water conservation	[New Idea]	-----
f	Create on-bill financing that can be applied to sewer bills and used for indoor water conservation	Windsor & Hayward	On-bill financing thru municipal water utilities
12	Codes & Standards		
a	Point-of-sale residential water conservation ordinance (can include audits and/or upgrades)	San Diego, LA, & Sacramento	San Diego - Ordinance in place since 2000 Sacramento - Requires CalGreen Tier 1 Water Efficiency compliance
b	Further revise Landscape Water Conservation Ordinance to promote water efficient landscape design	San Diego, Port of San Diego, Encinitas, County of LA, Sacramento, Emeryville, & Riverside	San Diego - Requires use of weather-based irrigation controllers Encinitas - Promotes graywater
c	Implement a Water Conservation Ordinance to promote efficient water use & reduce water waste	Poway, San Juan Capistrano, & Sacramento	-----
d	Develop standards that facilitate (complex) graywater system use	Port of San Diego	-----
e	Integrate water conservation measures into a required Green Building standard	Port of San Diego, LA, Sacramento, Riverside, & Vancouver	Sacramento - Require new buildings to meet CalGreen Tier 1 levels
f	Adopt water efficiency principles similar to the Ahwahnee Water Principles	National City	-----
g	Encourage regional conservation measures	Los Angeles	LA - Encourage all jurisdictions to adopt water conservation ordinances (include prohibited uses & enforcement)

New Possible Actions	h	Develop a Recycled Water or Rainwater Master Plan	Los Angeles & Vancouver	LA - Part of Water & Wastewater Integrated Resources Plan
	i	Broaden water efficiency upgrades required in the renovation or expansion of existing buildings (under SB407)	County of LA	
	j	Incorporate CalGreen Tier 1 Water Efficiency retrofits into rental housing with tenant turnover	Sacramento	Sacramento - Voluntary program becomes mandatory if projected savings not achieved
	k	Develop guidelines & standards for composting toilet installations	Sacramento	
	13 Education & Outreach			
	a	Support water conservation educational programs	Chula Vista, National City, Encinitas, City of LA, County of LA, Santa Monica, Sacramento, & Riverside	CV - See "Current City Actions" section above Encinitas - Sustainable landscaping workshops & water waste hotline LA - Outreach to HOA & community groups
	b	Promote free water audit programs in collaboration with efforts by local water districts	Chula Vista, County of LA, & Sacramento	CV - See "Current City Actions" section above
	c	Water efficiency training and certification for irrigation designers and installers and property managers.	County of LA & Sacramento	
	d	Distribute water saving devices such as faucet aerators & shower heads	Chula Vista, Riverside, & SDG&E	CV - See "Current City Actions" section above SDG&E - Distribute Therm Savings kits
	e	Train volunteers to provide door-to-door residential assistance (surveys) to targeted areas of the city	Sacramento	
	f	Use water conservation displays & gardens to demonstrate and promote water conservation principles	Chula Vista & Sacramento	CV - See "Current City Actions" section above; also South Bay Botanic Garden (SWC) & Water Conservation Garden (Cuyama College)
	14 Increase Use of Recycled Water			
	a	Identify uses for existing unused reclaimed water	National City	
	b	Support programs for residential reuse of graywater	Chula Vista, National City, & County of LA	CV - See "Current City Actions" section above
	c	Use recycled water and enhanced storm water capture for groundwater replenishment	Los Angeles & County of LA	LA - Part of Water & Wastewater Integrated Resources Plan
	d	Increase the use of recycled water from Wastewater Treatment Plants	Riverside	
	15 Increase System Efficiency			
	a	Audit water/wastewater pumps and replace least efficient pumps	Institute for Local Governments	
	b	Provide 100% of water from local sources	Santa Monica	Santa Monica - Complete & implement a Water Self-Sufficiency Plan
	16 Other Ideas?			
	a			
	b			
	b			